# Bureau of Land Management



# Amarillo Field Office Helium Operations

Statistical Report for April - 2010





#### Distribution:

Fluid Minerals Group Manager, Washington Office

NMSO, New Mexico State Director

NMSO, Associate State Director

NMSO, Petroleum Engineer

Field Manager, Amarillo Field Office

Assistant Field Managers (3)

**Team Leaders** 

- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Division Of Helium Operations, -Engineering and Technical Support

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Amarillo, Texas

Issued: September 10, 2010

\* Revised \*

"Please Note: Data in this report is accurate as of print date; however all data is subject to change."

Approved for distribution: Nelson R. Bullard /	Date:	09/10/2010	
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Table 1 - Summary of Helium Ope	erations				April - 2010
Helium Enrichment Unit Operations	Mo	nth			
Gas Processed	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYTD
Measured Plant Feed (Mcf*, `	571,391	135,837	23.77%	4,045,926	993,022
Helium Product (Mcf*)	172,854	134,802	77.99%	1,263,300	985,05
Residue Natural Gas (Mcf*)	258,363	0	0.00%	1,820,961	(
* Volumes in Mcf at 14.65 psia & 60°F	· · · · · ·		•		
Natural Gas & Liquids Produced					
Gas Processed				Month	FYT
Natural Gas Sales (Mcf***)				256,579	1,813,43
NGL Sales (gallons)				78,511	588,32
*** Volumes in Mcf at 14.73 psia & 60°F				76,511	366,32
Bush Dome Reservoir Operations	Mo	nth			
Conservation gases from all sources	Gross Volume	Net Helium	Average Percent	Gross FYTD	Net FYT
Total Withdrawn (Mcf*)	571,015	138,532	24.26%	4,058,319	1,026,84
Crude Injection (Mcf*)	15,296	11,945	78.09%	161,103	125,737
Crude Production (Mcf*)	3,703	2,893	78.11%	49,973	38,830
* Volumes in Mcf at 14.65 psia & 60°F					
Storage Operations					
Conservation Helium		Month	FYTD	CYTD	Cumulativ
Open Market Sale Volumes (Mcf*)		250,000	775,000	475,000	10,338,600
Conservation Helium in Storage (EOM) (Mcf*)		17,225,009	770,000	470,000	10,000,000
* Volumes in Mcf at 14.65 psia & 60°F		17,220,000			
In Kind Helium		Month	FYTD	CYTD	Cumulativ
Sale Volumes Transferred (Mcf*)		0	88,010	44,113	2,469,292
Sale Volumes Outstanding (Mcf*)		38,535	,	ŕ	, ,
* Volumes in Mcf at 14.65 psia & 60°F		,	1		
	,				
<b>Private Company Helium Storage Contrac</b>	ts	Mo	onth		Annual
Contact Activity		Gross Volume	Net Helium	Average Percent	Helium FYTD
Crude Acquired (Mcf*)		53,373	35,565	66.63%	310,626
Crude Disposed (Mcf*)		207,410	155,874	75.15%	1,160,65
Net Balance (Mcf*)		(154,037)	(120,309)		(850,033
Balance of Stored Helium End Of Month (Mcf*)			672,165		

Revenue /	Charges
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Helium Storage Contracts (Charges Billed (\$)	Month	FYTD
Storage Fees Billed (\$)	\$329,099	\$1,966,147
Reservoir Management Fees Billed (\$)	\$205,216	\$1,460,885

Field Compressor Charges (Charges Billed (\$)	Month	FYTD
Funded by the Refiners (provides for booster compression services)	(\$59,732)	(\$402,678)
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)	<u>\$15,463</u>	<u>\$92,795</u>
Net-Total (Funded by the Refiners for compression costs.)	(\$44,269)	(\$309,883)

Enrichment Unit Charges (Charges Billed (\$)	Month	FYTD
Reservior Management Fees (RMF)	\$205,216	\$1,460,885
Total operating costs	(\$829,265)	(\$5,699,942)
Sub Total - Items provided by BLM	\$341,595	\$2,286,250
Total - Cliffside Refiners, LP, GDA030001	(\$487,670)	(\$3,413,692)

Conservation Helium - Natural Gas - Liquid Sales	(Charges Billed (\$)	Month	FYTD
Open Market Sales		\$0	\$33,993,750
In Kind Sales		\$0	\$5,240,722
Natural Gas & Liquid Sales		\$1,083,777	\$9,435,240

Helium Resources Evaluation	Month	FYTD		
Revenue Collected from Federal Lease Holds			\$753,816	\$5,401,252
Helium Sample Collection Report for month	Submitted - 0	Received - 0	Analyzed -	22

		Gross W	/ithdrawal	Net Helium	n Withdrawal	Nitro	ogen	Metl	nane	Ethar	ne plus	Other (CC	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		571,015	183,533,127	138,532	32,220,906	142,947	45,084,455	257,146	95,210,671	27,483	9,496,183	4,907	1,520,912
BIVINS A-3	Apr-10	0	10,086,632	0	3,083,333	0	2,553,540	0	3,992,174	0	389,627	0	67,958
BIVINS A-6	Apr-10	3,703	8,211,912	2,893	4,750,896	716	2,029,150	69	1,279,088	0	122,837	26	29,941
BIVINS A-13	Apr-10	50,940	5,303,084	24,913	3,194,366	12,719	1,384,806	11,651	631,825	1,289	66,764	369	25,323
BIVINS A-14	Apr-10	60,121	5,846,782	33,838	3,889,965	15,014	1,494,051	9,773	396,394	1,042	40,637	454	25,736
BIVINS A-4	Apr-10	37,145	10,980,986	10,311	1,938,258	9,098	2,659,657	15,705	5,720,389	1,696	567,218	334	95,464
BUSH A-2	Apr-10	37,446	10,153,395	8,414	1,535,307	9,459	2,472,595	17,396	5,505,706	1,912	551,060	266	88,727
Injection	Apr-10	15,296	66,226,139	11,945	47,834,720	2,958	17,064,956	287	775,421	1	22	106	551,019
inj Bivins A-3	Apr-10	0	(25,652,315)	0	(18,384,452)	0	(6,554,549)	0	(332,777)	0	0	0	(380,537)
inj Bivins A-6	Apr-10	(15,296)	(24,186,614)	(11,945)	(17,502,584)	(2,958)	(6,434,691)	(287)	(137,955)	(1)	(12)	(106)	(111,373)
inj Bivins A-13	Apr-10	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Apr-10	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Apr-10	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Apr-10	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Apr-10	3,703	1,143,551	2,893	843,875	716	245,347	69	43,601	0	2,911	26	7,818
BIVINS A-1	Apr-10	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Apr-10	25,045	12,438,853	1,687	1,805,516	5,964	3,060,848	15,525	6,799,085	1,639	671,991	231	101,414
BIVINS A-5	Apr-10	27,360	13,826,541	7,183	1,579,982	6,954	3,369,151	11,714	7,963,844	1,300	791,858	208	121,706
BIVINS A-7	Apr-10	28,839	10,013,735	9,751	2,206,775	7,510	2,506,984	10,231	4,749,207	1,154	476,946	193	73,823
BIVINS A-9	Apr-10	25,740	8,943,286	532	167,287	6,649	2,182,063	16,605	5,917,129	1,751	593,608	203	83,199
BIVINS A-11	Apr-10	25,213	4,864,162	625	95,002	6,455	1,198,649	16,198	3,199,092	1,706	325,360	229	46,059
BIVINS A-15	Apr-10	37,285	7,781,870	760	393,765	8,836	1,858,166	24,741	4,958,739	2,527	493,613	422	77,588
BIVINS B-1	Apr-10	25,672	6,029,372	963	245,124	6,272	1,457,619	16,461	3,875,159	1,718	392,634	259	58,835
BIVINS B-2	Apr-10	25,494	4,738,849	487	88,917	6,525	1,177,754	16,373	3,094,652	1,706	316,109	403	61,415
BUSH A-1	Apr-10	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Apr-10	33,492	9,811,451	16,280	1,947,364	8,588	2,407,618	7,503	4,883,012	851	486,688	271	86,769
BUSH A-4	Apr-10	23,045	7,025,059	5,155	1,313,478	5,905	1,747,837	10,679	3,553,759	1,167	357,454	139	52,532
BUSH A-5	Apr-10	37,555	13,525,912	12,619	2,897,037	9,578	3,382,208	13,623	6,499,266	1,518	650,258	218	97,143
BUSH A-8	Apr-10	16,334	3,202,236	302	58,613	4,042	769,019	10,648	2,124,936	1,102	212,620	240	37,049
BUSH A-9	Apr-10	1	3,649,336	0	94,042	0	877,071	1	2,406,010	0	239,027	0	33,186
BUSH A-11	Apr-10	24,918	3,614,534	852	105,766	5,982	863,611	16,106	2,365,893	1,669	239,055	309	40,210
BUSH B-1	Apr-10	363	3,138,215	7	58,930	88	744,258	240	2,098,229	25	205,972	3	30,826
FUQUA A-1	Apr-10	0	2,954,072	0	53,853	0	702,792	0	1,975,157	0	193,571	0	28,699
FUQUA A-2	Apr-10	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Apr-10	25,302	8,852,164	962	561,892	6,594	2,160,018	15,906	5,504,771	1,710	552,717	130	72,767
TT Fuel	Apr-10	363	0	6	0	84	0	243	0	27	0	3	0
	fie	eld-wide pcts		24.26%	17.56%	25.03%	24.56%	45.03%	51.88%	4.81%	5.17%	0.86%	0.83%

Latest estimates of reserves and feed to  $\ensuremath{\mathsf{HEU}}$ 

Based on NITEC's 2003 reserves study from NITEC's interim report

est z-factor 0.980

As of EOM Apr-10	Volumes in BCF	
Initial Gas In Place	330.040	
Produced 1924 to 1961	48.830	
Injected 1924 to 1961	0.450	
Remaining Gas In Place 1961	281.660	
Left Behind Pipe, 1961	82.060 =====	=> 1.500 BCF of contained helium
Remaining in Place, 1961	199.600	
Gas In Place 1961	199.600	
Produced 1961 to July 2002	82.450	
Injected 1961 to July 2002	64.510	Net Helium
Remaining Gas In Place July	2002 181.660	33.997
Produced July 2002 through [	Dec 2002 1.096	0.743
Production 2003 - 08	48.814	11.109
Injection 2003 - 08	(1.100)	(0.614)
Produced to Date 2009	2.340	2.791
Injected to Date 2009	(0.074)	(0.348)
Amount of Raw Gas Available	to CHEU 130.584 =====	=> 20.316 total helium in reservoir
Estimated Bottom Hole Press	ure 480.753	

\* All volumes on Table 2 are reported in Mcf at 14.65 psia & 60°F

# Crude Helium Enrichment Unit Operations

		Gross W	/ithdrawal	Net Helium	Withdrawal	Nitr	ogen	Met	hane	Ethar	ne plus	Other (Co	D2, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Apr-10	571,391	48,668,832	135,837	12,265,738	143,174	12,236,878	259,780	21,466,077	27,669	2,288,473	4,931	411,666
Calculated Feed	Apr-10	566,948	48,457,652	135,633	12,275,514	142,148	12,185,410	256,833	21,309,321	27,455	2,277,212	4,879	410,195
Feed to Box	Apr-10	563,298	48,171,590	135,633	12,275,693	142,148	12,185,492	256,833	21,309,367	27,455	2,277,219	1,228	123,819
Cheu Product	Apr-10	172,854	15,412,708	134,802	12,090,833	33,606	2,914,628	3,246	300,139	5	333	1,195	106,775
Residue	Apr-10	258,363	21,411,799	0	1,287	6,791	528,333	229,278	18,982,246	22,294	1,898,705	0	1,228
Cold Box Vent	Apr-10	93,387	8,508,122	132	82,680	85,652	7,392,317	7,583	973,036	0	137	20	59,953
Flare/Boot Strap	Apr-10	0	807,377	0	42,077	0	322,252	0	347,177	0	90,678	0	5,193
Fuel From Cheu	Apr-10	10,547	687,875	0	245	359	20,106	8,535	558,038	1,654	109,487	0	0
Shrinkage/Loss	Apr-10	3,137	173,161	0	0	0	0	0	0	3,137	173,161	0	0
Unaccounted*	Apr-10	19,354	1,205,146	333	56,112	14,309	1,022,337	4,700	123,979	(0)	1,083	11	1,635

\*Before October 2004, the values are estimated

#### Storage Operations

Inventory	(contained	helium	)
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Beginning inventory	17,479,173	542,474
net acceptances +	0	(
redeliveries	0	(120,309
In Kind Transfers	0	(
Open Market Sales	(250,000)	250,000
Gain/loss	(4,164)	
Ending Inventory	17,225,009	672,165
Total Helium in Reservoir	20,315,952	
Total Helium in Storage	17,897,174	
Helium in native gas	2,418,778	

Government

Private

#### Crude Helium Pipeline

_	Gross	Net Helium	Percent
Beginning inventory	45,637	34,074	74.66%
Measured to Pipeline (Private Plants)	53,829	35,770	66.45%
Measured from Pipeline (Private Plants	207,866	155,880	74.99%
HEU Production	172,854	134,802	77.99%
Injection	15,296	11,945	78.09%
Production	3,703	2,893	78.11%
Ending Inventory	47,305	35,549	75.15%
Gain/Loss	(5,556)	(4,164)	

# Tuck Trigg Reservoir Operations

	-		Since Field	
Native Gas (Gross)	Month	Fiscal Year	Discovery	
Total in place, beg. of period	5,198,688	5,198,688	5,890,000	
Recoverable in place, beg. of period	4,528,688	4,528,688	5,220,000	
Production during period to date	0	0	691,312	
Total in place, end of month	5,198,688	5,198,688	5,198,688	
Recoverable in place, end of month	4,528,688	4,528,688	4,528,688	

<sup>\*</sup> All volumes on Table 3 are reported in Mcf at 14.65 psia & 60°F

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges	Billed (\$)**
In Kind Heliur	n									
AirGas South Wes Month FYTD	t, Contract no	o. INC98-0101							(	billed quarterly)
AirGas North Cent	ral, Contract	no. INC98-010								
FYTD										
AirGas Intermount	tain, Contract	no. INC98-01	03							
FYTD										
Air Liquide Helium Month FYTD	n America, Inc	c., Contract no	o. INC98-	0104						
Air Products, L.P., Month FYTD	Contract no.	INC98-0105								
Linde Gas North A	merica. LLC.	Contract no.	INC98-01	06						
Month FYTD	,,									
Corp Brothers, Inc	c., Contract ne	o. INC98-0107								
Month FYTD										
FIBA Technologies	s, Inc., Contra	act no. INC98-	0108							
Month FYTD										
General Air Servic	e & Supply C	o., Contract n	o. INC98	-0109						
Month FYTD										
Jack B. Kelley Co.	, Contract no	. INC98-0110								
Month FYTD										
Portland Welding S	Supply, Conti	ract no. INC98	3-0111							
FYTD										
Praxair, Inc., Conti Month FYTD	ract no. INC9	8-0112								
United States Weld Month FYTD	ding, Inc., Co	ntract no. INC	98-0113							
Matheson Tri-Gas, Month FYTD	, Inc., Contrac	et no. INC98-0	114							
GT & S, Contract r Month FYTD	no. INC00-011	5								
Total month	0	0	0	0	0	0	0	0		\$0
Total FYTD	49,841	3,749	3	1,175	13,384	15,785	83,937	82,641		\$5,240,722
Total CYTD	21,890	1,865	0	197	4,353	10,828	39,132	38,528		\$2,494,688
Cumulative	1,497,677	71,853	227	268,164	336,607	372,721	2,547,249	2,507,752		\$134,828,483
In Kind Trans	ters						Month	FYTD	CYTD	Cumulative
Transferred Volume outstanding							0 38,535	88,010	44,113	2,469,292

<sup>\*</sup> Volumes in Mcf at 14.7 psia & 70°F

<sup>+</sup> Volumes in Mcf at 14.65 psia & 60°F

# **Helium & Natural Gas Sales**

	Award Volume*	Outstanding*	Sales*	Charges Billed (\$)*		
Conservation Helium		_		(billed quarter		
Air Liquide Helium America, Inc.						
Month	0	0	0	\$		
FYTD	0	0	0	\$		
Cumulative	77,000		77,000	\$4,258,50		
Air Products, L.P.						
Month	350,000	0	0	\$		
FYTD	550,000	350,000	200,000	\$12,950,00		
Cumulative	4,209,400		3,859,400	\$223,369,25		
Linde Gas North America, LLC						
Month	130,000	0	0	\$		
FYTD	305,000	130,000	175,000	\$11,331,25		
Cumulative	3,534,000		3,404,000	\$192,033,75		
Keyes Helium Co., LLC						
Month	0	0	0	\$		
FYTD	0	0	0	\$		
Cumulative	548,200		548,200	\$31,759,90		
Matheson Tri-Gas, Inc.						
Month	0	0	0	\$		
FYTD	0	0	0	\$		
Cumulative	10,000		10,000	\$587,50		
Praxair, Inc.						
Month	0	0	0	\$		
FYTD	150,000	0	150,000	\$9,712,50		
Cumulative	2,290,000		2,290,000	\$133,652,50		
Linde Gas, LLC discontinued 10 2008						
Month	0	0	0	\$		
FYTD	0	0	0	\$		
Cumulative	200,000		200,000	\$11,035,		
Total month	480,000	0	0	\$		
Total FYTD	1,005,000	480,000	525,000	\$33,993,7		
Total CYTD	780,000		300,000			
Cumulative	10,868,600		10,388,600	\$596,696,4		
Open Market Transfers		Month	FYTD	CYTD Cumulativ		
Transferred		250,000	775,000	475,000 10,338,60		
Volume outstanding		50,000				
Totalio Galdianang		53,000				

<sup>\*</sup> Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas/Liquid Sales** 

Natural Sas/Elquid Sales										
	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	Avg Btu Value	Charges Billed (\$)**					
El Paso Natural Gas	<u>.</u> <u>S</u>	Provides Measured F	irm/Interruptible Trans	sportation Services	(billed monthly)					
Month	256,579		280,781	1,094	(\$29,584)					
FYTD	1,813,430		1,985,567	1,095	(\$208,390)					
Cumulative	20,899,305		22,997,452	1,100	(\$2,379,255)					
Minerals Manageme	ent Service	Provides Natural Gas	Marketing Services							
Month					(\$465)					
FYTD					(\$15,119)					
Cumulative					(\$174,371)					
<u>Tenaska</u>		Purchaser - Natural C	Gas	\$\$/Unit						
Month			278,468	\$3.600905	\$1,002,737					
FYTD			1,970,027	\$4.491055	\$8,847,500					
Cumulative			22,851,341	\$5.761522	\$130,837,603					
<u>SemCrude</u>		Purchaser - Natural C	Sas Liquids							
Month		78,511	8,505	\$13.061711	\$111,090					
FYTD		588,324	62,864	\$12.904809	\$811,248					
Cumulative		5,515,114	588,757	\$11.557104	\$6,804,326					
	Natural Gas (Mcf)***	NGLs (gal)	Purchased (Dth's)	\$\$ Per Unit (\$\$/Dth)	Total (\$\$)					
Total month	256,579	78,511	286,973	\$3.776583	\$1,083,777					
Total FYTD	1,813,430	588,324	2,032,891	\$4.641292	\$9,435,240					
Total CYTD	1,055,007	335,259	1,177,397	\$4.834487	\$5,692,111					
Cumulative	20,899,305	5,515,114	23,440,098	\$5.798150	\$135,088,303					

<sup>\*\*\*</sup> Volumes in Mcf at 14.73 psia & 60°F

<sup>\*\*</sup>Rounded to nearest dollar

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$764,545	\$5,384,932
Natural Gas Royalties (1)	\$1,049	\$3,814
Natural Gas Rentals	\$640	\$640
Other	<u>\$11,867</u>	<u>\$120,692</u>
Revenue Collected from Federal Lease Holds	\$753,816	\$5,401,252

<sup>\*</sup>Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	0	0
Number of Samples Received	0	0
Number of Samples Analyzed	0	1
Total Number of Samples Analyzed For Resources Division	0	19
Total Number of Other Samples Analyzed (2)	22	172

# **U. S. Helium Production**

Domestic	FY Volume		CY Volume
2003 Helium Sold	4,621,000		4,393,555
2004 Helium Sold	4,675,800		4,692,699
2005 Helium Sold	4,936,900		4,800,782
2006 Helium Sold	4,943,900		4,944,544
2007 Helium Sold	4,941,200		4,965,176
2008 Helium Sold	4,767,400		4,668,286
2009 Helium Sold	4,325,300	*	4,744,174
Estimated Helium Resources as of 12/31/2006(Mcf)			732,000,000

<sup>\*</sup> Indicates Production Data are Projected

		FY-2009	CY-2009
U.S. Helium Exports	(3)	2,631,905	2,563,080

- (1) Includes drip gas sales & other miscellaneous gas sales.
- (2) Includes pipeline, field survey, and other requested analyses.
- (3) Data from Department of Commerce Bureau of the Census.

All volumes	in Mct at 14.	oo psia o		od Coo			Tronofo	erred Gas	Ctorod	Chara	es Billed
	Metered Gas Gross Gas Helium Helium Heliu		Helium			elium	Stored Helium		\$)**		
		Month	Hellulli	FYTD	CYTD	Cumulative	Month	Cumulative	EOM	Month	Ψ) FYTD
Total All Contra	cts*		<u> </u>								
Crude Acquired	53,373	66.6%	35,565	310,626	159,480	29,343,219	298,924	41,186,076			
Crude Disposed	207,410	75.2%	155,874	1,160,659	665,790	39,357,815	48,924	29,020,597		\$329,099	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718				\$205,216	RMF Fees
Net/Balance	(154,037)		(120,309)	(850,033)	(506,310)	(11,493,314)	250,000	12,165,479	672,165	\$534,315	\$3,429,365
<b>Total Prior Cont</b>		NATED)	, ,		, ,	, , , ,	,				. , , ,
Crude Acquired	`	,		0	0	17,406,129	0	18,196,898			
Crude Disposed				0	0	11,830,863	0	19,148,768			
Grade-A Rdlvrd				0	0	1,478,718					
Number of trailers				0	0	9,834			0		
<b>Linde Gas Nortl</b>	h America, LL	C, Contra	ct no. 199	5-3249							
Crude Acquired	ŕ	•									
Crude Disposed											
Net/Balance											
Praxair, Inc., Co	ntract no. 199	5-3251									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L.	P., Contract n	o. 1995-3	256								
Crude Acquired											
Crude Disposed											
Net/Balance											
ExxonMobil Gas	s Marketing C	o., Contra	ct no. 199	5-3280							
Crude Acquired											
Crude Disposed											
Net/Balance											
<b>Pioneer Natural</b>	Resources U	SA, Inc, C	ontract no	o. 1995-3286	;						
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium C	o., LLC, Cont	ract no. 1	995-3287								
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Heli	um America, I	nc., Conti	ract no. 20	03-3284							
Crude Acquired											
Crude Disposed											
Net/Balance											
Matheson Tri-G	as, Inc., Contr	act no. 20	007-3288								
Crude Acquired											
Crude Disposed											
Net/Balance											
Airgas Merchan	it Gases, Cont	ract no. 2	009-3290								
Crude Acquired											
Crude Disposed											
Net/Balance											

Government Helium								
Remaining Crude Acquired beginning of the month								
Crude Disposed: In Kind Sales transferred for the month	0							
Open Market/Reserve Sell Down transferred for the month	(250,000)							
Gains and Loses for the month	<u>(4,164)</u>							
Net/Balance of Purchased Helium Remaining for Sale	17,225,009							

<sup>\*</sup>Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$3.60	\$4.50	\$5.75
Fuel used *	total MMBTU	11,999	87,325	998,025
Field compressor fuel revenue *	\$dollars	\$585	\$8,734	\$645,296
HEU compressor fuel credit *	\$dollars	\$27,288	\$240,082	\$3,026,628
HEU fuel credit *	\$dollars	\$15,323	\$144,134	\$2,065,564
#1 Compressor run time *	hours	619	4,067	57,731
#2 Compressor run time *	hours	718	3,715	38,116
#3 Compressor run time *	hours	68	2,282	26,924

<sup>\*</sup> Field/CHEU Compressor Operations based on Apr 10 activity

Field Compressor Charges	Charges Billed (\$)*		
Linde Gas North America, LLC, Contract no. 1995-3249			
Praxair, Inc., Contract no. 1995-3251			
Air Products, L.P., Contract no. 1995-3256			
Keyes Helium Co., LLC, Contract no. 1995-3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	(\$59,732)	(\$402,678)	(\$7,419,683)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	<u>\$15,463</u>	<u>\$92,795</u>	<u>\$1,841,340</u>
Net Total - Cliffside Refiners, LP	(\$44,269)	(\$309,883)	(\$5,578,343)

<sup>\*</sup> BLM provided fuel cost is based on Feb 10 fuel consumed

\*Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	Month		FYTD		Cumulative
CHEU Runtime	Runtime Hrs	Percent	Runtime Hrs	Percent	Runtime Hrs
Processing feed gas	705	97.9%	4,997	98.2%	58,098
Producing residue gas	685	95.2%	4,947	97.2%	57,613
Producing helium product	686	95.2%	4,951	97.3%	54,746
Producing natural gas liquids	693	96.2%	4,957	97.4%	53,261

	Charges Billed (\$)*		
CHEU Charges	Month	FYTD	Cummulative
Reservior Management Fees (RMF)	\$205,216	\$1,460,885	\$14,904,310
Total operating costs	<u>(\$829,265)</u>	(\$5,699,942)	(\$72,978,511)
Labor	\$102,247	\$715,728	\$6,022,436
Compressor fuel cost Feb 10	\$34,966	\$220,315	\$3,015,707
HEU fuel cost Feb 10	\$21,663	\$130,826	\$2,074,029
Electrical power cost Feb 10	\$130,068	\$850,825	\$10,730,150
Other	<u>\$52,651</u>	<u>\$368,556</u>	<u>\$7,605,105</u>
Sub Total - Items provided by BLM	\$341,595	\$2,286,250	\$32,656,782
Total - Cliffside Refiners, LP, GDA030001	(\$487,670)	(\$3,413,692)	(\$40,321,729)

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) usage Apr 10	3,737	27,862	318,615
Cheu Pure Water Usage (gallons) Apr 10	1,023	8,837	227,334
Electricity Metered (Kwh) consumed Feb 10	2,777,053	19,628,678	186,451,462